

★ HYDR = Q89 82-414318/50 ★ SU 1710929-A1
Pipeline system damaged section automated detection - arranging
sensors at test sections of highest leakage sensitivity and finding
section with max. damage probability

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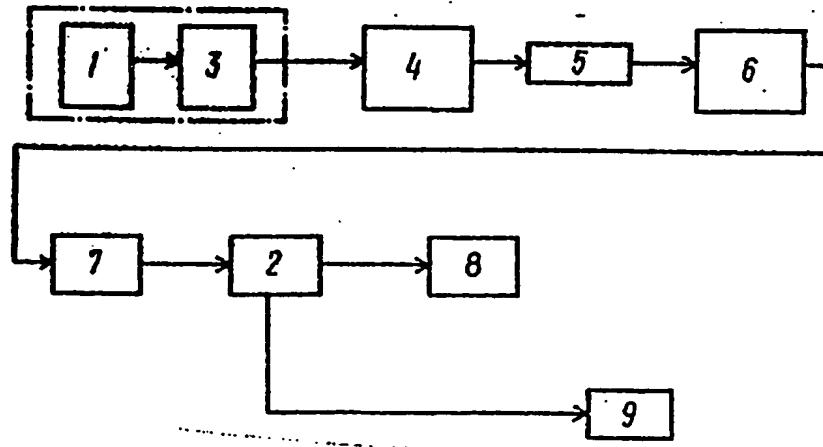
The pipeline damage section automatic detection, including setting pressure sensors at test sections, followed by setting their polling sequence and their polling timing, while determining of damaged section is indicated by the pressure variation magnitude, for better reliability, involves setting of sensors at sections with highest leakage sensitivity. For that prior to the operation of leakage searching, the hydraulic network analysis is carried out by computer, for comparing the sensitivity of the units by formation of sensitivity matrix using a given formula.

The hardware includes pressure sensors (1), computer (2), pressure-to-electric signal converter (8), data transmission unit (4), communication channel (5), data receiver (6), matching unit (7), printer (8) and data display system (9).

USE/ADVANTAGE - For detecting-localising damages of pipelines for all urban pipelines network. Better reliability, efficiency and accuracy of detecting damage and its localisation.

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